Applications of Steam Boilers in Industries

The Steam Boilers are pressure vessels designed to generate high-pressure steam at saturated temperatures. As we all know, steam remains one of the most commonly used technologies, and high-steam industrial processes are very energy-intensive. Heat is a main source of energy. Apart from generating heat, an industry requires mainly steam. Consequently, a Steam Boiler comes into play which provides an uninterrupted supply of steam for industrial processes.

5 Industrial Applications of Steam Boilers

Although there are many industries use steam boilers. Here we will discuss quite a few of them.

- Power plants
- Food Industry
- Paper Factory
- Plywood Manufacturing
- Pharmaceuticals

1. Power plants

Thermal power plants also known as thermal power stations use heat energy to generate electricity, which is then supplied to homes, factories, and institutes. It has many commercial and household applications. Turbines convert heat to mechanical power which is then fed into a boiler. Our boilers maintain high pressure and temperature steam that can rotate a turbine.

2. Food Industry

Heat energy is the most important component of food production and must be used at all stages. Industrial food-grade boilers are suitable for food processing, packaging, and beverage processing. We at Jupiter Energy Technologies Pvt Ltd, trusted **Industrial Steam boiler manufacturer in India**, offers energy-efficient steam boilers for cooking, cleaning, and packing products by heating them directly or indirectly. We have a number of fuel sources available for every food sector, including coal and natural gas.

3. Paper Factory

In the heating process, there is a word known as "saturated steam". This means that the temperature is uniform throughout the procedure. If it is 100°C, it will remain at that temperature throughout the process. Corrugated packaging facilities or paper mills use rolls that are internally heated with steam. Paper processing companies primarily require saturated steam. We are noted for producing a significant amount of heat at a consistent temperature.

4. Plywood Manufacturing

The wood contains moisture. The boiler can be used to reduce the moisture content. Steam contact is one method for drying wood. In this process, steam from the boiler is used to eliminate moisture. Steam boilers are useful for disinfection, extraction, drying, wood preservation, and sterilization.

5. Pharmaceuticals

Pharmaceutical industries are among the largest consumers of heat energy and emit significant volumes of carbon dioxide into the atmosphere. They require steam for sterilization, medicine manufacture, and other purposes. With a strong commitment to quality, innovation, and customer satisfaction, we take pride in being one of the most reliable **ASME Boiler Manufacturer in India**, offering high-performance steam boilers.

At Jupiter Energy Technologies Pvt Ltd, we manufacture a wide range of high-quality **wood fired steam boilers** and boiler spare parts. We will help you save a lot on operating costs along with the commissioning, installation, and annual maintenance of the Steam Boiler. We have high experience in working on Turnkey Steam Boiler projects across India.

Thank you